

Session Program

Sep 3 - 7, 2018



Invisibles18 Workshop

Neutrinos

Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI)
Engesserstraße 5, 76131 Karlsruhe

Mon, September 3

9:35 AM

Neutrinos

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Belen Gavela

09:35 – 10:05

Recent Results on Accelerator Oscillation Experiments

Speaker

Brajesh Choudhary

10:05 – 10:35

Nonstandard Neutrino Interactions

Speaker

Yasaman Farzan

10:35 AM

11:05 AM

Neutrinos

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Ana M. Teixeira

11:05 – 11:35

Sterile Neutrino Searches at Colliders

Speaker

Stefan Antusch

11:35 – 12:05

PhD forum 1

Subcontributions

Heavy Neutral Fermions at the High-Luminosity LHC (Zeren Simon Wang)

Speaker

Zeren Simon Wang

Baryogenesis from R-parity Breaking : the Role of Flavour (Fiona Kirk)

Speaker

Fiona Kirk

Gauge Legacy LHC Run I (Nuno Rosa Agostinho)

Speaker

Nuno Rosa Agostinho

Determining the Masses of Right-Handed Neutrinos in the Littlest Seesaw (Susana Molina Sedgwick)

Speaker

Susana Molina Sedgwick

An EFT Approach to Possible Lepton Anomalies (Rupert Coy)

Speaker
Rupert Coy

12:05 – 12:35 Low-Scale Lepton Number Violation and Leptogenesis

Speaker
Julia Harz

12:35 – 14:00 lunch**Neutrinos**

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Convener: Chair: Renata Zukanovich Funchal

14:00 – 14:30 Neutrino masses from Planck-scale lepton number breaking

Speaker
Alejandro Ibarra

14:30 – 15:00 PhD forum 2**Subcontributions****SO(10) Inspired Z' Models at the LHC (Simon King)**

Speaker
Simon King

SO(10)xS4 Grand Unified Theory of Flavour and Leptogenesis (Elena Perdomo Mendez)

Speaker
Elena Perdomo Mendez

Three-Flavoured Non-Resonant Leptogenesis at Intermediate Scales (Kristian Moffat)

Speaker
Kristian Moffat

ARS Mechanism and Beyond (Andrea Caputo)

Speaker
Andrea Caputo

IceCube Bounds on Sterile Neutrinos Above 10 eV (Julia Gehrlein)

Speaker
Julia Gehrlein

15:00 – 15:30 Neutrinos and the Gravitational Theta-Term

Speaker
Lena Funcke

4:00 PM

Neutrinos

Session |**Location:** Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |**Convener:** Chair: Sandhya Choubey

16:00 – 16:30

Neutrino Portal to Dark Matter

Speaker

Arsenii Titov

16:30 – 17:00

Sterile neutrino searches at DUNE and IceCube

Speaker

Josu Hernandez

17:00 – 17:30

Testable Models for Leptogenesis

Speaker

Lopez-Pavon

17:30 – 18:00

Neutrino Discussion 1

Speaker

Zhi-zhong Xing

6:00 PM

Tue, September 4

9:00 AM

Neutrinos

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Stephen Parke

09:00 – 09:30

Direct Neutrino Mass Measurements

Speaker

Loredana Gastaldo

09:30 – 10:00

PhD forum 3

Subcontributions

Optical Selection for Pandora-based Electron Neutrino Searches in MicroBooNE (Wouter Van De Pontseele)

Speaker

Wouter Van De Pontseele

Constraints on Neutrino Matter Potential and Robustness of Oscillation Data (Ivan Esteban)

Speaker

Ivan Esteban

Status of the eV Sterile Neutrino Oscillations (Alvaro Hernandez-Cabezudo)

Speaker

Alvaro Hernandez-Cabezudo

A Study of Invisible Neutrino Decay at DUNE and its Effects on θ_{23} Measurement (Dipyaman Pramanik)

Speaker

Dipyaman Pramanik

Probing the Sterile Neutrino Portal to Dark Matter with γ Rays (Miguel G. Folgado)

Speaker

Miguel G. Folgado

10:00 – 10:30

Sterile Neutrinos in Beta and Neutrinoless Double Beta Decays

Speaker

Xabier Marciano

10:30 AM

11:00 AM

Neutrinos

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Gabriela Barenboim

11:00 – 11:30

Review of Neutrinoless Double Beta Decay Experiments

Speaker

Chiara Brofferio

11:30 – 12:00 PhD forum 4**Subcontributions****KATRIN Background Characterization (Anna Pollithy)****Speaker**

Anna Pollithy

Status of the Neutrinoless Double-Beta Decay Experiment GERDA (Chloe Ransom)**Speaker**

Chloe Ransom

Unparticle Decay of Neutrinos and its Possible Signatures at a Km2 Detector for (3+1) Flavour Framework (Madhurima Pandey)**Speaker**

Madhurima Pandey

Gravitational Contributions to the Beta Function (Sergio Gonzalez-Martin)**Speaker**

Sergio Gonzalez-Martin

Cosmic Infrared Background Excess from Axion-like Particles, and Implications for Multi-messenger Observations of Blazars (Edoardo Vitagliano)**Speaker**

Edoardo Vitagliano

12:00 – 12:30 Neutrinos in Cosmology**Speaker**

Olga Mena

12:30 PM

2:30 PM

Neutrinos**Session |****Location:** Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |**Convener:** Chair: Pilar Hernandez**14:30 – 15:00 High Energy Neutrinos and Multi Messenger Astronomy****Speaker**

Anna Franckowiak

15:00 – 15:30 The High Energy Neutrino Sky**Speaker**

Irene Tamborra

15:30 – 16:00 Neutrino Discussion 2**Speaker**

Pilar Hernandez

4:00 PM